

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

AGS 5 SR HAWK WIPES

Product no.

3998

REACH registration number

Not applicable

Unique formula identifier (UFI)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Graffiti Remover

Uses advised against

The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and address

Trion Tensid AB

Svederusgatan 1-3

SE-754 50 Uppsala

Sweden

Phone: +46 (0)18 15 61 90

Contact person

Magnus Kolsmyr

E-mail

info@trion.se

SDS date

2018-11-01

SDS Version

1.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flam. Liq. 3; H226 Acute Tox. 4; H302

Skin Irrit. 2; H315

Eye Irrit. 2; H319

See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)





Signal word

Warning

Hazard statement(s)

Flammable liquid and vapour. (H226) Harmful if swallowed. (H302) Causes skin irritation. (H315) Causes serious eye irritation. (H319)

Precautionary statements

General

Prevention Wear protective gloves/protective clothing/eye protection/face protection. (P280). Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).

If eye irritation persists: Get medical advice/attention. (P337+P313).

Store in a well-ventilated place. Keep cool. (P403+P235). Storage

Disposal Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards

1-butylpyrrolidin-2-one, 2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve, potassium hydroxide caustic potash

2.3. Other hazards

This product contains an organic solvent. Repeated or prolonged exposure to organic solvents may result in adverse effects to the nervous system and internal organs such as liver and kidneys.

Additional labelling

Not applicable

Additional warnings

Not applicable

VOC (volatile organic compound)

Not applicable

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAMF: 1-butylpyrrolidin-2-one

IDENTIFICATION NOS.: CAS-no: 3470-98-2 EC-no: 222-437-8 CONTENT:

CLP CLASSIFICATION: Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2

H302, H315, H319

NAME: 2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether

IDENTIFICATION NOS.: CAS-no: 112-34-5 EC-no: 203-961-6

15 - < 25% CONTENT: CLP CLASSIFICATION: Eye Irrit. 2 H319

NOTE:

NAME: 2-(2-ethoxyethoxy)ethanol

IDENTIFICATION NOS.: CAS-no: 111-90-0 EC-no: 203-919-7 15 - <25%

CONTENT: CLP CLASSIFICATION: NA

ethanol ethyl alcohol NAMF:

IDENTIFICATION NOS.: CAS-no: 64-17-5 EC-no: 200-578-6 REACH-no: 02-2119666127-35

CONTENT: 10 - <15% CLP CLASSIFICATION: Flam. Liq. 2 H225 NOTE:

NAMF: 2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve **IDENTIFICATION NOS.:** CAS-no: 111-76-2 EC-no: 203-905-0 REACH-no: 01-2119475108-36

CONTENT:

CLP CLASSIFICATION: Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Acute Tox. 4

H302, H312, H315, H319, H332

NOTE: SL

NAME: potassium hydroxide caustic potash



IDENTIFICATION NOS.: CAS-no: 1310-58-3 EC-no: 215-181-3

CONTENT: 1 - < 2 5%

CLP CLASSIFICATION: Acute Tox. 4, Skin Corr. 1A

H302, H314

(*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

 \hat{S} = Organic solvent L = European occupational exposure limit.

Other information

ATEmix(inhale, vapour) > 20 ATEmix(dermal) > 2000 ATEmix(oral) = 956,936 - 1435,404 Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 7,992 - 11,988 Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 6,232 - 9,348

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

The product is an article and is unlikely to be of any chemical risk.

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Exposure is not likely due to the physical state of the product (article).

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure to flush under the upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

In the case of ingestion, contact a doctor immediately and bring the safety data sheet or label. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Rinse with water until the pain stops then continue to rinse for a further 30 minutes.

4.2. Most important symptoms and effects, both acute and delayed

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure. Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes

or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

4.3. Indication of any immediate medical attention and special treatment needed

If eye irritation persists: Get medical advice/attention.

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are



produced. These are: Nitrogen oxides. Carbon oxides. Some metal oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

6.2. Environmental precautions

No specific requirements.

6.3. Methods and material for containment and cleaning up

Not applicable due to the physical state of the product (article).

6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid static electricity. Protect electrical equipment in accordance with current standards. To divert static electricity during transmission, containers must be grounded and connected by wire with the receiving containers. Do not use spark-forming tools.

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Nothing special (article).

Storage temperature

4 - 25 °C

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OFL

potassium hydroxide caustic potash

Long-term exposure limit (8-hour TWA reference period): - ppm | - mg/m³

Short-term exposure limit (15-minute reference period): - ppm | 2 mg/m³

2-butoxyethanol ethylene glycol monobutyl ether butyl cell...

Long-term exposure limit (8-hour TWA reference period): 25 ppm | 123 mg/m³

Short-term exposure limit (15-minute reference period): 50 ppm | - mg/m³

Comments: Sk;BMGV (Bmgv = Biological Monitoring Guidance Value. Sk = Can be absorbed through skin.)

ethanol ethyl alcohol

Long-term exposure limit (8-hour TWA reference period): 1000 ppm | 1920 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether

Long-term exposure limit (8-hour TWA reference period): 10 ppm | 67,5 mg/m³

Short-term exposure limit (15-minute reference period): 15 ppm | 101.2 mg/m³

DNEL / PNEC

DNEL (1-butylpyrrolidin-2-one): 2,5 mg/kg bw/day

Exposure: Oral

Duration of Exposure: Short term – Systemic effects - General population

DNEL (1-butylpyrrolidin-2-one): 2,5 mg/kg bw/day



Exposure: Oral

Duration of Exposure: Long term - Systemic effects - General population

DNEL (1-butylpyrrolidin-2-one): 5 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term - Systemic effects - General population

DNEL (1-butylpyrrolidin-2-one): 17,4 mg/m3

Exposure: Inhalation

Duration of Exposure: Long term - Systemic effects - General population

DNEL (1-butylpyrrolidin-2-one): 10 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term - Systemic effects - Workers

DNEL (1-butylpyrrolidin-2-one): 70,5 mg/m3

Exposure: Inhalation

Duration of Exposure: Long term - Systemic effects - Workers

DNEL (2-(2-ethoxyethoxy)ethanol): 83 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term - Systemic effects - Workers

DNEL (2-(2-ethoxyethoxy)ethanol): 61 mg/m3

Exposure: Inhalation

Duration of Exposure: Long term - Systemic effects - Workers

DNEL (2-(2-ethoxyethoxy)ethanol): 30 mg/m3

Exposure: Inhalation

Duration of Exposure: Long term - Local effects - Workers

DNEL (2-(2-ethoxyethoxy)ethanol): 50 mg/kg bw/day

Exposure: Oral

Duration of Exposure: Long term - Systemic effects - General population

DNEL (2-(2-ethoxyethoxy)ethanol): 25 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-(2-ethoxyethoxy)ethanol): 37 mg/m3

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-(2-ethoxyethoxy)ethanol): 18 mg/m3

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - General population

DNEL (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 59 mg/kbm

Exposure: Inhalation

Duration of Exposure: Long term - Systemic effects - General population

DNEL (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 75 mg/kg bw/day

Exposure: Dermal

 $\label{eq:condition} \mbox{Duration of Exposure: Long term} - \mbox{Systemic effects - General population}$

DNEL (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 147 mg/kbm

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - General population

DNEL (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 26,7 mg/kg bw/day

Exposure: Oral

Duration of Exposure: Short term – Systemic effects - General population

DNEL (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 426 mg/kbm

Exposure: Inhalation

Duration of Exposure: Short term - Systemic effects - General population

DNEL (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 89 mg/kg bw/day

Exposure: -

Duration of Exposure: Short term - Systemic effects - General population

DNEL (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 98 mg/kg bw/day

Exposure: Inhalation

Duration of Exposure: Long term - Systemic effects - Workers



DNEL (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 125 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Long term - Systemic effects - Workers

DNEL (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 246 mg/kbm

Exposure: Inhalation

Duration of Exposure: Short term - Local effects - Workers

DNEL (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 1091 mg/kbm

Exposure: Inhalation

Duration of Exposure: Short term - Systemic effects - Workers

DNEL (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 89 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Short term - Systemic effects - Workers

DNEL (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 6,3 mg/kg bw/day

Exposure: Oral

Duration of Exposure: Long term - Systemic effects - General population

PNEC (1-butylpyrrolidin-2-one): 0,7955 mg/kg

Exposure: Soil

Duration of Exposure: Single

PNEC (1-butylpyrrolidin-2-one): 06336 mg/kg

Exposure: Marine water sediment Duration of Exposure: Single

PNEC (1-butylpyrrolidin-2-one): 6,336 mg/kg

Exposure: Freshwater sediment Duration of Exposure: Single

PNEC (1-butylpyrrolidin-2-one): 30,62 mg/L Exposure: Sewage Treatment Plant Duration of Exposure: Continuous

PNEC (1-butylpyrrolidin-2-one): 1 mg/L

Exposure: Water

Duration of Exposure: Single

PNEC (1-butylpyrrolidin-2-one): 0,08 mg/L

Exposure: Marine water Duration of Exposure: Single

PNEC (1-butylpyrrolidin-2-one): 0,8 mg/L

Exposure: Freshwater Duration of Exposure: Single

PNEC (2-(2-ethoxyethoxy)ethanol): 7,32 mg/kg

Exposure: Marine water sediment Duration of Exposure: Single

PNEC (2-(2-ethoxyethoxy)ethanol): 0,732 mg/kg

Exposure: Freshwater sediment Duration of Exposure: Single

PNEC (2-(2-ethoxyethoxy)ethanol): 500 mg/L

Exposure: Sewage Treatment Plant Duration of Exposure: Single

PNEC (2-(2-ethoxyethoxy)ethanol): 0,198 mg/L

Exposure: Marine water Duration of Exposure: Single

PNEC (2-(2-ethoxyethoxy)ethanol): 1,98 mg/L

Exposure: Freshwater Duration of Exposure: Single

PNEC (2-(2-ethoxyethoxy)ethanol): 0,34 mg/kg

Exposure: Soil

Duration of Exposure: Single

PNEC (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 8,8 mg/L



Exposure: Freshwater Duration of Exposure: Single

PNEC (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 0,88 mg/L

Exposure: Marine water Duration of Exposure: Single

PNEC (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 9,1 mg/L

Exposure: Water

Duration of Exposure: Continuous Remarks: Intermittent releases

PNEC (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 463 mg/L

Exposure: Sewage Treatment Plant Duration of Exposure: Single

PNEC (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 34.6 mg/kg

Exposure: Freshwater sediment Duration of Exposure: Single

PNEC (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 3,46 mg/kg

Exposure: Marine water sediment Duration of Exposure: Single

PNEC (2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve): 2,33 mg/kg

Exposure: Soil

Duration of Exposure: Single

8.2. Exposure controls

Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

General recommendations

Observe general occupational hygiene standards.

Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements.

Individual protection measures, such as personal protective equipment



Generally

Use only CE marked protective equipment.

Respiratory Equipment

In the event of insufficient ventilation

Recommended: A. Class 1 (low capacity). Brown

Skin protection

Dedicated work clothing should be worn.

Hand protection

Nitrile rubber

Can be reused after cleaning

Eye protection

Wear safety glasses with side shields.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form

Colour Tan
Odour Solvent

Odour threshold (ppm)

PH

No data available.

No data available.

No data available.

No data available.

Density (g/cm³) 0,97

Phase changes

Melting point (°C) No data available.

Boiling point (°C) 120-180

Vapour pressure

Decomposition temperature (°C)

Evaporation rate (n-butylacetate = 100)

No data available.

No data available.

No data available.

Data on fire and explosion hazards

Flash point (°C) 36

Ignition (°C)

Auto flammability (°C)

Explosion limits (% v/v)

No data available.

Solubility

Solubility in water Soluble

n-octanol/water coefficient No data available.

9.2. Other information

Solubility in fat (g/L) No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Shelf life: 24 months.

Shelf life after opening: 18 months

10.3. Possibility of hazardous reactions

Nothing special

10.4. Conditions to avoid

Avoid static electricity.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Substance: potassium hydroxide caustic potash

Species: Rat Test: LD50

Route of exposure: Oral Result: 273 mg/kg

Substance: 2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve

Species: Rat Test: LD50

Route of exposure: Oral



Result: 2000 mg/kg

Substance: 2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve

Species: Rat Test: LC50

Route of exposure: Inhalation

Result: 2,2 mg/l (4 h)

Substance: 2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve

Species: Rat Test: LD50

Route of exposure: Dermal Result: 2270 mg/kg

Substance: 2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve

Species: Rabbit Test: LD50

Route of exposure: Dermal

Result: 220 mg/kg

Substance: ethanol ethyl alcohol

Species: Rat Test: LD50

Route of exposure: Oral Result: 7060 mg/kg

Substance: ethanol ethyl alcohol

Species: Rabbit Test: LD50

Route of exposure: Dermal Result: >20000 mg/kg

Substance: ethanol ethyl alcohol

Species: Rat Test: LC50

Route of exposure: Inhalation

Result: 124,7 mg/L

Substance: 2-(2-ethoxyethoxy)ethanol

Species: Rat Test: LD lo

Route of exposure: Inhalation

Result: 0,025 mg/L

Substance: 2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether

Species: Rat Test: LD50

Route of exposure: Oral Result: 5660 mg/kg

Substance: 2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether

Species: Rat Test: LD50

Route of exposure: Dermal Result: ca 4000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.



Aspiration hazard

No data available.

Long term effects

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure. Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

SECTION 12: Ecological information

12.1. Toxicity

Substance: potassium hydroxide caustic potash

Species: Fish Test: LC50 Duration: 24 h Result: 80 mg/L

Substance: 2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve

Species: Fish Test: LC50 Duration: 96h Result: 1474 mg/l

Substance: 2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve

Species: Algae Test: EC50 Duration: 72h Result: 1840 mg/l

Substance: 2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve

Species: Daphnia Test: EC50 Duration: 48h Result: 1550 mg/l

Substance: 1-butylpyrrolidin-2-one

Species: Fish Test: LC50 Duration: 96 h Result: >100 mg/L

Substance: 1-butylpyrrolidin-2-one

Species: Algae Test: EC50 Duration: 72 h Result: 130 mg/L

Substance: 1-butylpyrrolidin-2-one

Species: Daphnia Test: EC50 Duration: 48 h Result: >100 mg/L

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
potassium hydroxide caustic p 2-butoxyethanol ethylene glyc ethanol ethyl alcohol 2-(2-ethoxyethoxy)ethanol 2-(2-butoxyethoxy)ethanol	Yes Yes Yes Yes Yes	No data available CO2 Evolution Test Closed Bottle Test O2 Consumption No data available	No data available 90% 85% 79,4% No data available
die 1-butylpyrrolidin-2-one	Yes	No data available	No data available

12.3. Bioaccumulative potential



Substance potassium hydroxide caustic	Potential bioaccumulation	LogPow	BCF
p 2-butoxyethanol ethylene glyc ethanol ethyl alcohol 2-(2-ethoxyethoxy)ethanol 2-(2-butoxyethoxy)ethanol die	No	-1,38	No data available
	No	No data available	No data available
	No	-0,32	0,66
	No	No data available	No data available
	No	No data available	No data available
	No	No data available	No data available

12.4. Mobility in soil

potassium hydroxide caustic p...: Log Koc= -1,014422, Calculated from LogPow (). ethanol ethyl alcohol: Log Koc= -0,175008, Calculated from LogPow ().

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Other adverse effects

1-butylpyrrolidin-2-one

Nothing special

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

Waste

EWC code 20 01 29*

detergents containing dangerous substances

Specific labelling

Not applicable

Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 - 14.4

This product is within scope of the regulations of transport of dangerous goods.

ADR/RID

14.1. UN number	1993
14.2. UN proper shipping name	-
14.3. Transport hazard class(es)	3
14.4. Packing group	Ш
Notes	-
Tunnel restriction code	-

IMDG

UN-no. 1993

Proper Shipping Name FLAMMABLE LIQUID, N.O.S.(ethanol, glycol)

 Class

 PG*
 III

 EmS
 F-E, S-E

 MP**
 No

 Hazardous constituent

IATA/ICAO

UN-no. 1993

Proper Shipping Name FLAMMABLE LIQUID, N.O.S.(ethanol, glycol)

Class - III

14.5. Environmental hazards

-



14.6. Special precautions for user

-

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

(*) Packing group (**) Marine pollutant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

-

Additional information

Not applicable

Seveso

Seveso III Part 1: P5c

Sources

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

EC regulation 1907/2006 (REACH).

The Control of Major Accident Hazards (COMAH) Regulations 2015.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H225 - Highly flammable liquid and vapour.

H302 - Harmful if swallowed.

H312 - Harmful in contact with skin.

H314 - Causes severe skin burns and eye damage.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

The full text of identified uses as mentioned in section 1

Additional label elements

Not applicable

Other

In accordance with Article 31 of REACH, a safety data sheet is not required for this product. This safety data sheet has been created on a voluntary basis in order to distribute relevant information as required under Article 33 of REACH.

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of physical hazards has been based on experimental data.





The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The safety data sheet is validated by MK

Date of last essential change (First cipher in SDS version)

Date of last minor change (Last cipher in SDS version)

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